

FIG. 1

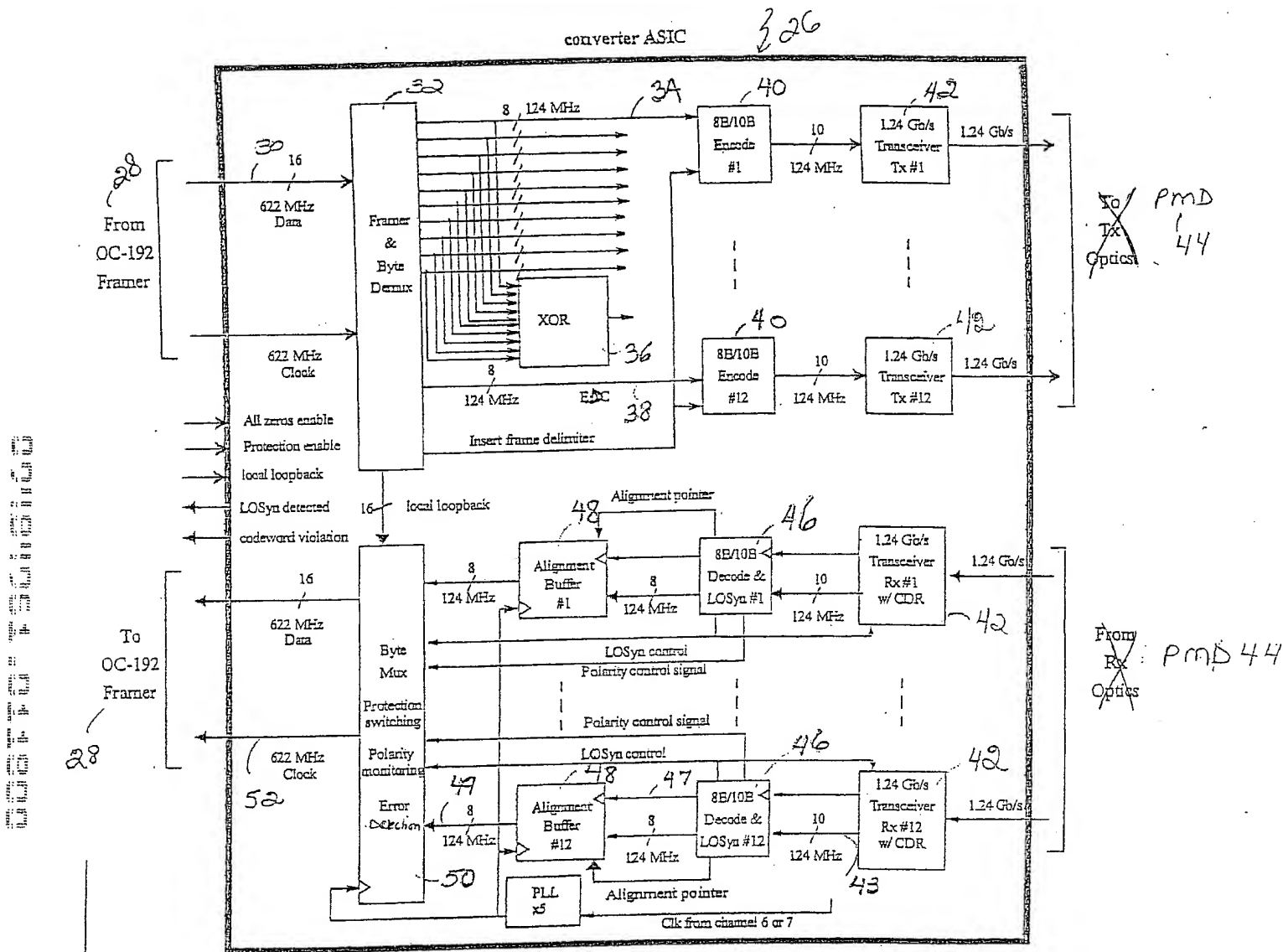


FIG. 2

Code group name	Octet Value	Current RD-	Current RD+
		abcdei fghj	abcdei fghj
K28.5	BC	001111 1010	110000 0101
D3.1 <sup>a</sup>	23	110001 1001	110001 1001
D21.2 <sup>a</sup>	55	101010 0101	101010 0101

a. both D3.1 and D21.2 have neutral mark/space density.

FIG. 3

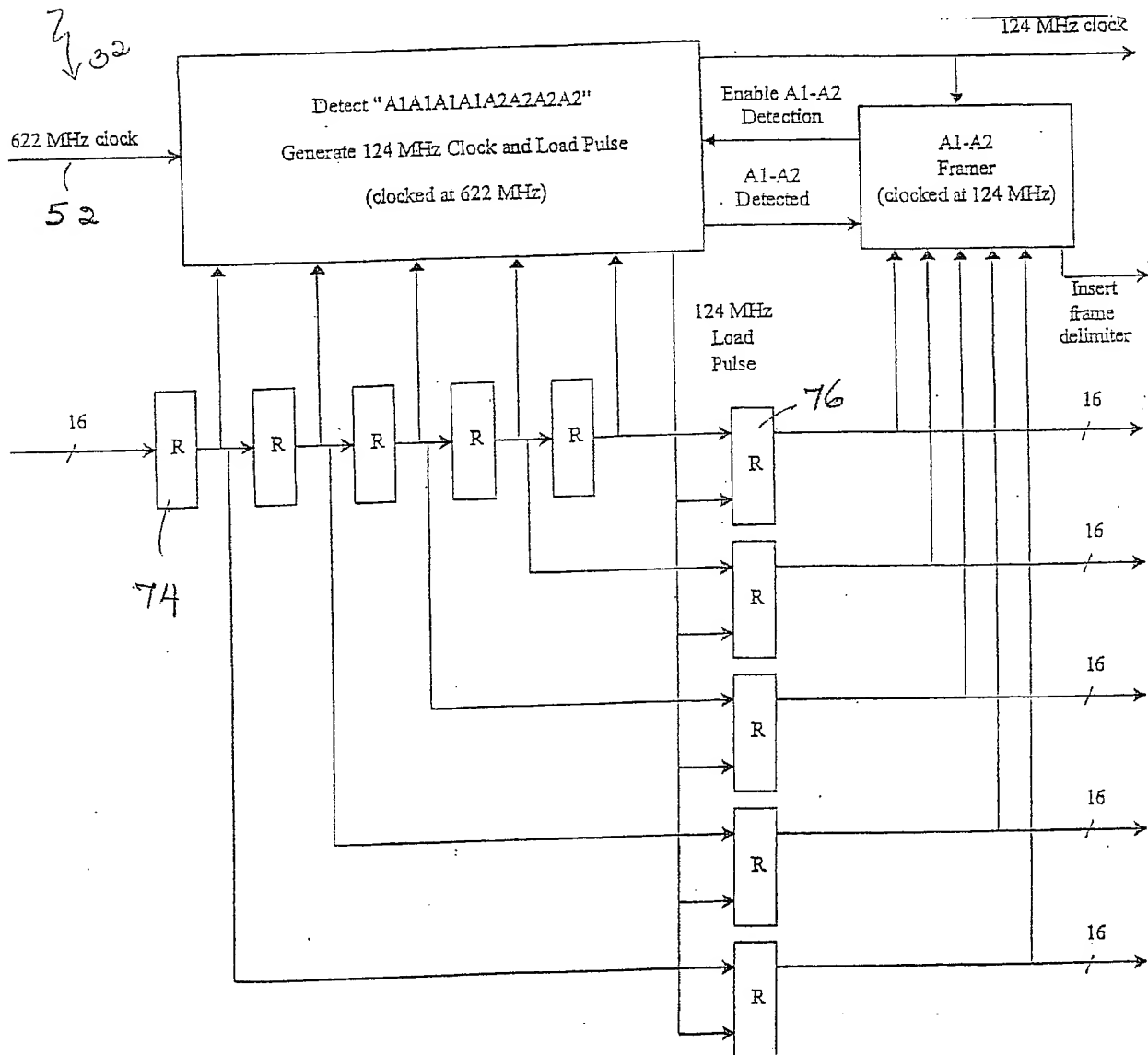


FIG. 4

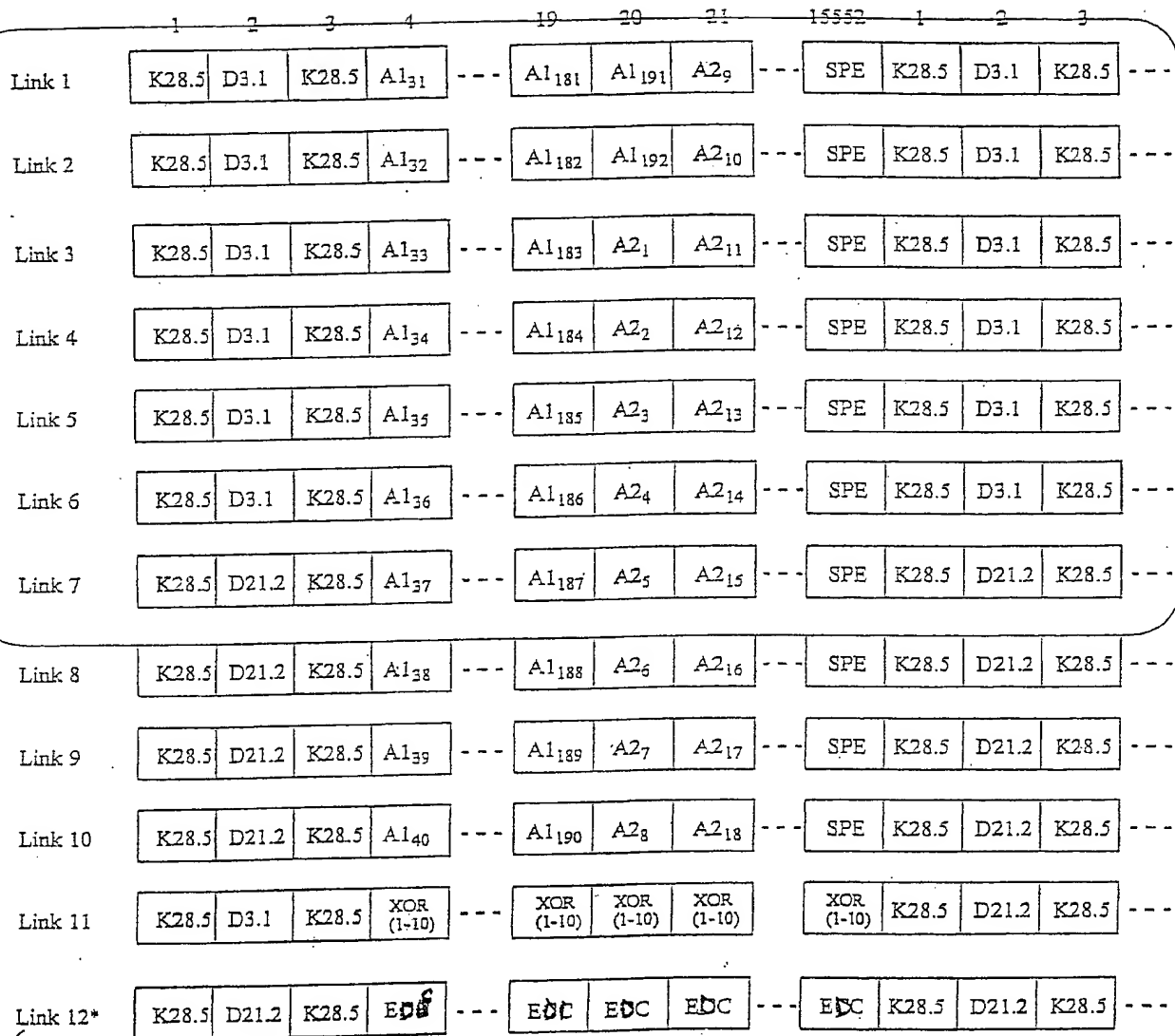


FIG. 5

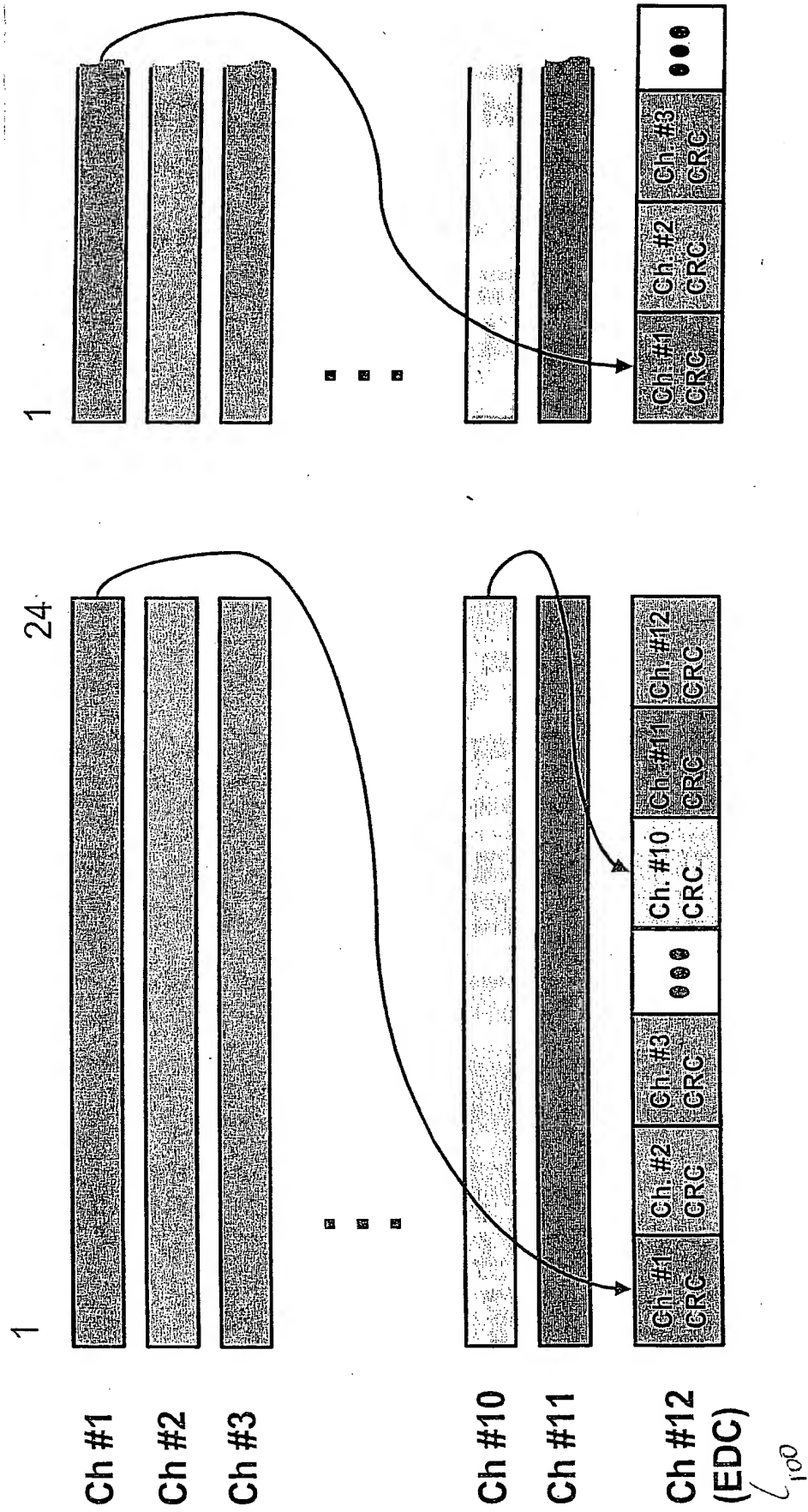


FIG. 6

- assumes errors are uncorrelated between channels (each channel operates at  $BER < 10^{-12}$ )

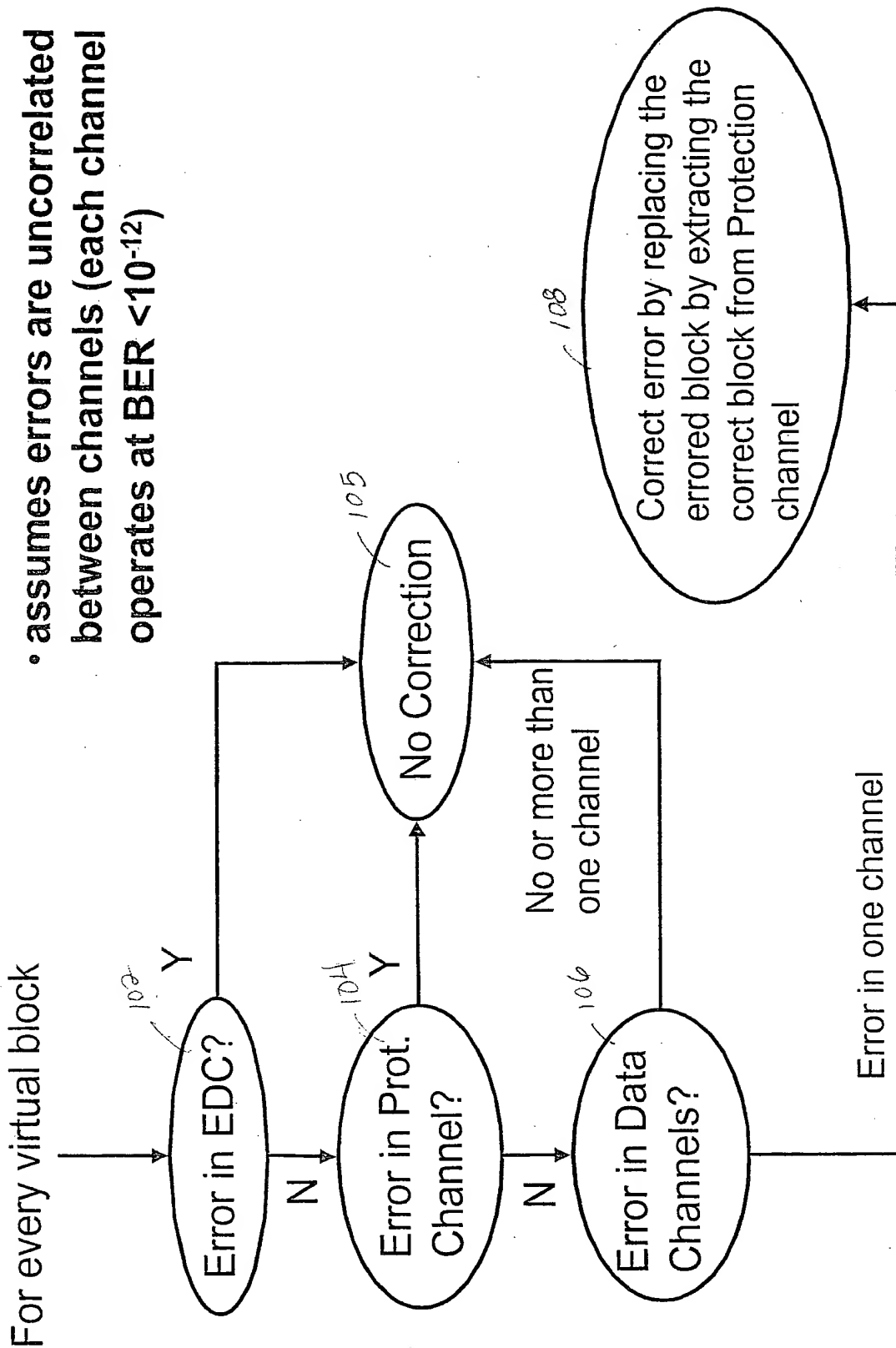


FIG. 7

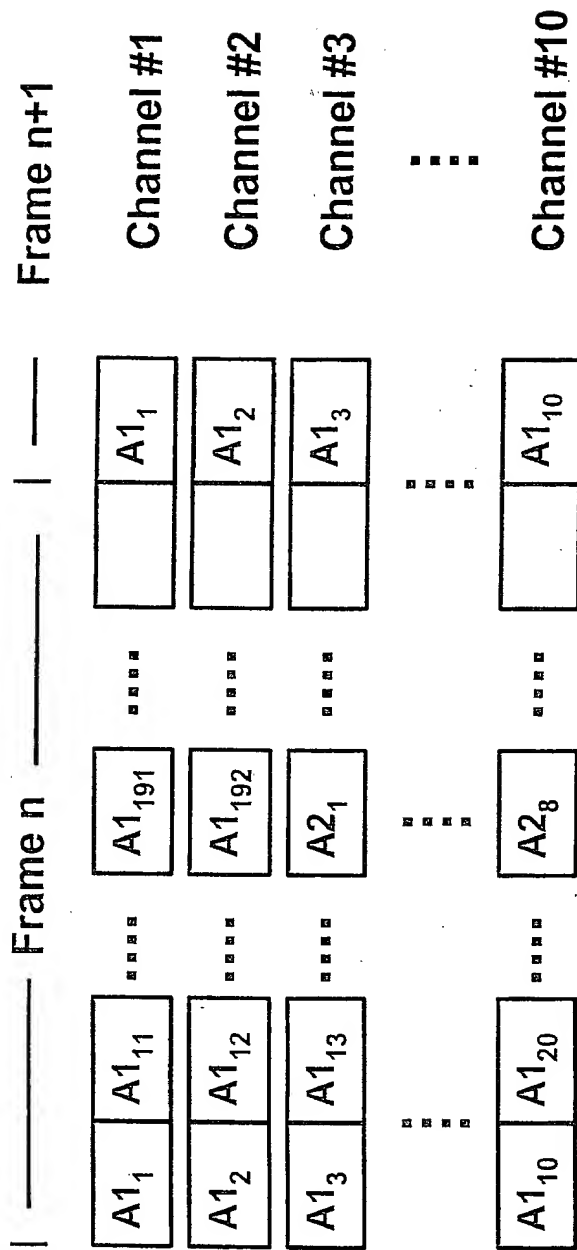
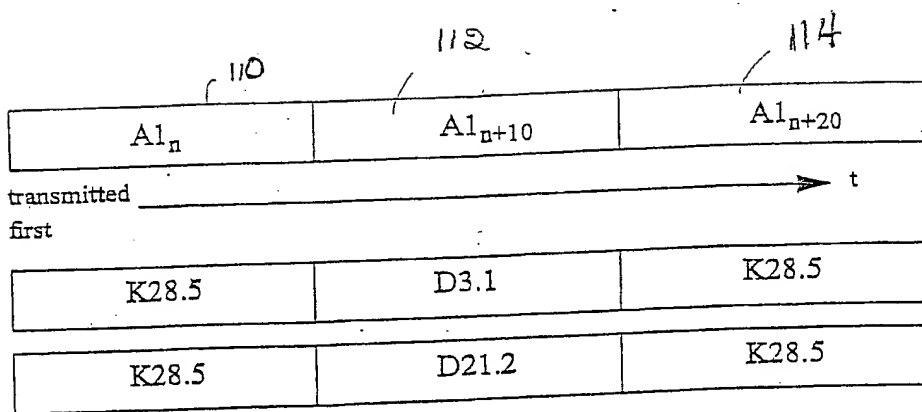


FIG. 8



SONET frame bytes  
as they appear on an  
individual channel

Frame delimiter for  
channels 1-6

Frame delimiter for  
channels 7-12

Note: D3.1 and D21.2 have neutral running disparity to ensure that two K28.5's have opposite disparity.  
D3.1 and D21.2 are used as the channel identifiers

FIG. 9